

VLT® Pump Application Module for MCD 200



The Pump Application Module expands the soft starter's input and output functionality and is ideal for applications where greater control and feedback are required.

The module provides three digital inputs and one PT100 sensing input, which can monitor system conditions and shut the motor down safely if an unwanted condition occurs.

The Pump Application Module is easy to install and configure, and no special tools or additional software are required. The module is powered through the soft starter's serial port.

The Pump Application Module has been designed for pumping applications but can be easily adapted to any situation requiring input/output expansion.

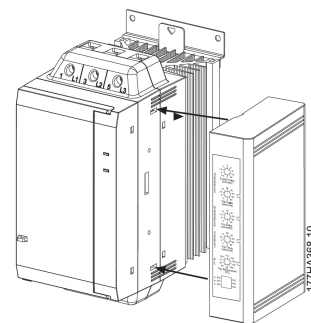
Inputs

The Pump Application Module has three digital inputs which can be directly connected to external inputs such as pressure switches, flow switches, limit switches or PLC outputs, and one PT100 input which can be

directly connected to a temperature sensor. When an input activates, the module will trip the soft starter. To resume normal operation, the soft starter must be reset.

Each input is designed for a specific function.

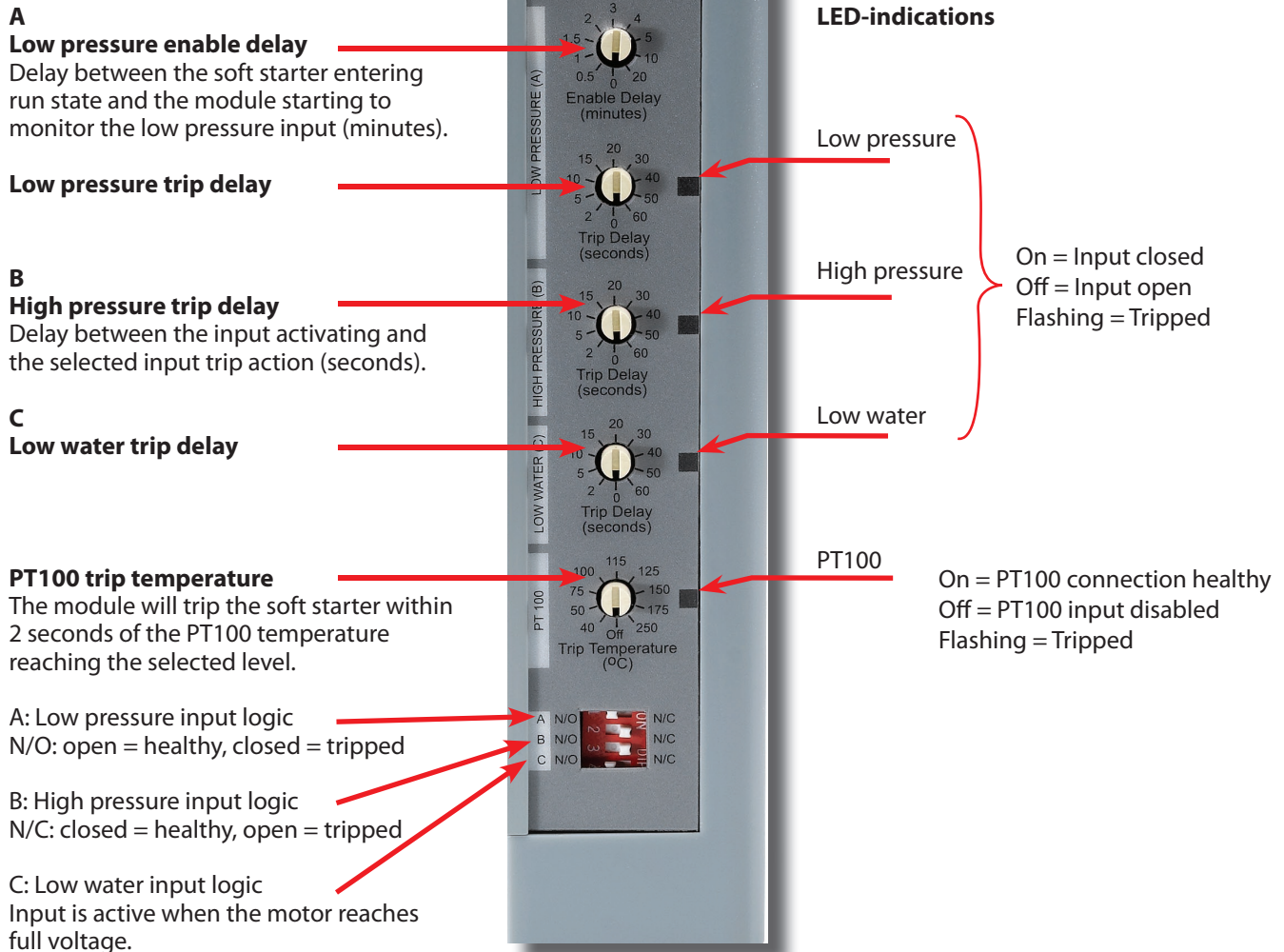
- Input A: Low pressure
- Input B: High pressure
- Input C: Low water
- PT100: Temperature sensing



The perfect solution for:

- Submersible pumps
- Compressor oil Pumps
- Safety Interlocking Systems

Features	Benefits
<ul style="list-style-type: none"> • Four additional trip inputs 	<ul style="list-style-type: none"> • Increases the soft starter's functionality for pumping and other applications
<ul style="list-style-type: none"> • Other application use 	<ul style="list-style-type: none"> • Where 2-wire monitor and sensor cables can be directly connected to the module
<ul style="list-style-type: none"> • Dedicated pump system monitoring and protection 	<ul style="list-style-type: none"> • Allow for pump priming and detection of broken pipes • Detection of blocked pipes • Detection of low water level and pump running dry • Detection of over heated pump case
<ul style="list-style-type: none"> • Common trip output 	<ul style="list-style-type: none"> • The functionality of the soft starter expanded with a dedicated common trip output
<ul style="list-style-type: none"> • Simplified installation 	<ul style="list-style-type: none"> • Reduces control wiring costs • No need for external relays, timers, mini-PLCs, etc. • Reduces commissioning time



Specifications

Enclosure	
Dimensions	35 mm (W) x 157 mm (H) x 90 mm (D)
Weight	250 g
Protection	IP 20
Mounting	Spring-action plastic mounting clips (x 2)
Connections	
Soft starter	6-way pin assembly
Inputs/Output	Screw and plug type terminals
Maximum cable size	1.5 mm ²
Settings	
Trip settings	10-position rotary switches
Input logic	3-way dip switch
Power Supply	Internally powered from soft starter (External power source not required)
Outputs	
Relay type	single pole, changeover
Capacity	6 A @ 30 VDC resistive, 2 A @ 400 VAC, AC11

Inputs	
Digital inputs	Voltage free, 8 mA maximum at 24 VDC 30 m maximum (unshielded)
Steady state	
Cable length	
PT100 input	
Sensing current	1 mA
Max. accuracy	± 2°C
Min. instantaneous trip point	92.2 Ω at -20 °C
Open circuit protection	Included
Connection	2, 3 or 4 wire
Cable length	150 m maximum (twisted pair/shielded)
Environmental	
Pollution degree 3	
Operating temperature	-5 °C ~ +60 °C
Relative humidity	Maximum 95% non-condensing
Certification	
C✓	IEC 60947-4-2
CE	IEC 60947-4-2